

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
 CLUSTER 7 - LINDOKUHLÉ, ZWELETHU, REUNION
 AND KWAMNYANDU STATION

Item No	Quantity	Rate	Amount
<u>SECTION NO. 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
<p>The JBCC Principal Building Agreement (May 2018 Edition 6.2) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The Preliminaries revision 1 (February 2016) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement Edition 6.2 shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described</p> <p>The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"</p>			
<u>PREAMBLES FOR TRADES</u>			
<p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards.</i></p> <p><i>Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same</i></p>			
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The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained

Supplementary preambles and/or specifications are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles

The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications

NOTES TO TENDERERS

Minimum Threshold for Local Content

Section No.2 - Builder's Work

BILL	Item	Description	Threshold
<u>Steel doors (transformer doors) and frames</u>			
		<u>PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u>	
		<i>Pressed Transformer doors</i>	
6	1	Door size 1605 x 2032mm high with rebated frame suitable for 230mm wall	100%
		<u>STEEL ROLLER SHUTTERS ETC</u>	
6	2-7	Electronically operated slatted roller shutter for 925x 1100mm high opening	100%
		<u>PRESSED STEEL DOOR FRAMES</u>	
6	8	Single door size frame 813 x 2032 mm high	100%

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		ALUMINIUM WINDOWS, DOORS, ETC	
6	9-26	Aluminium Windows	100%
6	27-29	Aluminium Doors	100%

Metal sheeting

		ROOF SHEETING	
2	1	Roof sheeting pitch no exceeding 18 degrees	100%

Gutters, downpipes and lauders

		RAINWATER GOODS	
8	1	PVC gutters with 20mm overlapping joints sealed with and including bitumen impregnated foam plastic joint sealing strip and riveted at 20mm centres	100%
8	2	80mm PVC down pipe fixed to brick wall including brackets	100%
8	3	Extra over eaves gutter for offset	100%
8	4	Extra over eaves gutter for outlet	100%
8	5	Extra over eaves gutter for stopped end	100%
8	6	Extra over for shoe	100%

Section No.2 - Builder's Work (Wet Services)

BILL	Item	Description	Threshold
		<u>SANITARY PLUMBING</u>	
8	12-14	Class 34 uPVC Pipe	100%
8	15-27	Class 34 uPVC FITTINGS	100%
		<u>WATER SUPPLY - COLD WATER RETICULATION</u>	
		Replace defective pipe sections and fittings	
8	28-29	PEX Piping	100%
		Extra over PEX pipes for	100%

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			Brought Forward
8	31-33	fittings	100%
8	34-36	Plastic Pipe Compression Fittings And Valves	100%
8	37-38	Pipe Hangers - Anchor, Threaded Rod & Hanger	100%

Section No.3 - Electrical Installation

BILL	Item	Description	Threshold
<u>CABLES AND CONDUCTORS</u>			
1	16	2,5mm conductors (mixed colours - live, neutral and earth). 4,0mm conductors (mixed colours - live, neutral and earth)	90%
1	17-21	2.5 mm ² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable. 4,0 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable. 10 mm ² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable. 10 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable. 25 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable.	90%
1	45, 46, 50 & 54	50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	90%
<u>TRUNKING, POWER SKIRTING & CONDUITS</u>			
1	22	25mm PVC Conduit including all necessary accessories. 32mm steel Conduit including all necessary accessories.	100%
1	23	32mm steel Conduit including all necessary accessories. 32mm steel Conduit including all necessary accessories..	100%

Section No.4 - HVAC Installation

BILL	Item	Description	Threshold
		Supply, deliver and install the following Units as per specification	

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			Brought Forward
1	9	Refrigeration Copper Piping With Thermal Insulation and all associated Fittings.	100%
1	10	PVC Condensate Drain Piping With Insulation	100%
1	14	Fabricate , Supply and Install lockable Security Cages around each Outdoor Condensing Unit	100%

Section No.5 - Fire Protection

BILL	Item	Description	Threshold
<u>Supply, deliver and install all Fire appliances and piping with complete with all auxiliary fittings ::</u>			
1	4-7	Black Mild Steel Fittings	100%
1	8-9	Black Mild Steel Piping	100%
1	10-16	Class 16 HDPE Piping & Fittings	100%

Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.

Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

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<p>Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.</p> <p>Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to fully acquaint themselves with the construction period and shall allow for any night shift if required. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p>	
<p><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></p>	
<p>Section A : A recital of the headings of the individual clauses of the aforementioned JBCC Principal Building Agreement</p>	
<p>Section B : A recital of the headings of the individual clauses of the aforementioned Preliminaries document</p>	
<p>Section C : Any special clauses to meet the particular circumstances of the project</p>	
<p><u>PRICING OF PRELIMINARIES</u></p>	
<p>Should the contractor select Option A in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)</p>	
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<u>LOCATIONS DESCRIPTIONS:</u>			
QUANTITIES IN THESE BILLS OF QUANTITIES ARE SPLIT INTO THE LOCATIONS:			
LOCATION [A] - LINDOKUHLE STATION			
LOCATION [B] - ZWELETHU STATION			
LOCATION [C] - REUNION STATION			
LOCATION [D] - KWAMNYANDU STATION			
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<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>			
<u>Interpretation (A1-A7)</u>			
1	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item	
2	Clause 2.0 - Law, regulations and notices F:..... V:..... T:.....	Item	
3	Clause 3.0 - Offer and acceptance F:..... V:..... T:.....	Item	
4	Clause 4.0 - Assignment and cession F:..... V:..... T:.....	Item	
5	Clause 5.0 - Contract documents F:..... V:..... T:.....	Item	
6	Clause 6.0 - Employer's agents 1. PRINCIPAL AGENT LODEMANN HOLDINGS Suite 301 Wheeler House 112-116 Mathews Meyiwa Rd (Stamford Hill) Morningside Durban F:..... V:..... T:.....	Item	
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7	Clause 7.0 - Design responsibility F:..... V:..... T:.....	Item	
	<u>Insurance and security (A8-A11)</u>		
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item	
10	Clause 10.0 - Insurances F:..... V:..... T:.....	Item	
11	Clause 11.0 - Security F:..... V:..... T:.....	Item	
	<u>Execution (A12 - A17)</u>		
12	Clause 12.0 - Duties of the parties F:..... V:..... T:.....	Item	
13	Clause 13.0 - Setting out F:..... V:..... T:.....	Item	
14	Clause 14.0 - Nominated subcontractors F:..... V:..... T:.....	Item	
15	Clause 15.0 - Selected subcontractors		
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	Brought Forward		R	
	F:..... V:..... T:.....	Item		
16	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall: F:..... V:..... T:.....	Item		
17	Clause 17.0 - Contract instructions Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor F:..... V:..... T:.....	Item		
	<u>Completion (A18 - A24)</u>			
18	Clause 18.0 - Interim completion F:..... V:..... T:.....	Item		
19	Clause 19.0 - Practical completion F:..... V:..... T:.....	Item		
20	Clause 20.0 - Sectional completion F:..... V:..... T:.....	Item		
21	Clause 21.0 - Defects liability period and final completion			
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	F:..... V:..... T:.....	Item		
22	Clause 22.0 - Latent defects liability period			
	F:..... V:..... T:.....	Item		
23	Clause 23.0 - Revision of date for practical completion			
	Substitution of materials and goods			
	The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2]			
	F:..... V:..... T:.....	Item		
24	Clause 24.0 - Penalty for late or non-completion			
	F:..... V:..... T:.....	Item		
	<u>Payment (A25 - A27)</u>			
25	Clause 25.0 - Payment			
	F:..... V:..... T:.....	Item		
26	Clause 26.0 - Adjustment of the contract value and final account			
	F:..... V:..... T:.....	Item		
27	Clause 27.0 - Recovery of expense and/or loss			
	F:..... V:..... T:.....	Item		
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<u>Suspension and termination (A28 - A29)</u>		
28	<p>Clause 28.0 - Suspension by the contractor</p> <p>F:..... V:..... T:.....</p>	Item
29	<p>Clause 29.0 - Termination</p> <p>F:..... V:..... T:.....</p>	Item
<u>Dispute resolution (A30)</u>		
30	<p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... T:.....</p> <p>The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties</p> <p>F:..... V:..... T:.....</p> <p>F:..... V:..... T:.....</p>	Item Item
<u>SECTION B: PRELIMINARIES</u>		
<u>Interpretation (B1)</u>		
31	<p>Clause 1.1 - Definitions</p> <p>F:..... V:..... T:.....</p>	Item
32	<p>Clause 1.2 - Interpretation</p> <p>F:..... V:..... T:.....</p>	Item
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	<u>Documents (B2)</u>		
33	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item	
34	Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item	
35	Clause 2.3 - Availability of construction information Budgetary allowances and provisional sums The budgetary allowances and/or provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period F:..... V:..... T:.....	Item	
36	Clause 2.4 - Ordering of materials and goods F:..... V:..... T:.....	Item	
	<u>Previous work and adjoining properties (B3)</u>		
37	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
38	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
39	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item	
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<u>The site (B4)</u>			
40	Clause 4.1 - Defined works area F:..... V:..... T:.....	Item	
41	Clause 4.2 - Handover of site in stages F:..... V:..... T:.....	Item	
42	Clause 4.3 - Enclosure of the works F:..... V:..... T:.....	Item	
43	Clause 4.4 - Geotechnical investigation F:..... V:..... T:.....	Item	
44	Clause 4.5 - Encroachments F:..... V:..... T:.....	Item	
45	Clause 4.6 - Existing premises occupied F:..... V:..... T:.....	Item	
46	Clause 4.7 - Services - known F:..... V:..... T:.....	Item	
47	Clause 4.8 - Protection of trees and/or relevant natural features F:..... V:..... T:.....	Item	
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	Brought Forward		R	
	<u>Management of contract (B5)</u>			
48	Clause 5.1 - Management of the works F:..... V:..... T:.....	Item		
49	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
50	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item		
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>			
51	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item		
52	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item		
53	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item		
54	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	<u>Deposits and fees (B7)</u>			
55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item		
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	<u>Temporary services (B8)</u>		
56	Clause 8.1 - Water F:..... V:..... T:.....	Item	
57	Clause 8.2 - Electricity F:..... V:..... T:.....	Item	
58	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item	
59	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item	
	<u>Prime cost amounts (B9)</u>		
60	Clause 9.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	
	<u>Attendance on subcontractors (B10)</u>		
61	Clause 10.1 - General attendance F:..... V:..... T:.....	Item	
62	Clause 10.2 - Special attendance F:..... V:..... T:.....	Item	
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<u>General (B11)</u>			
63	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item	
64	Clause 11.2 - Protection/isolation of existing/sectionally occupied works F:..... V:..... T:.....	Item	
65	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item	
66	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item	
67	Clause 11.5 - Disturbance F:..... V:..... T:.....	Item	
	Clause 11.6 - Environmental disturbance F:..... V:..... T:.....	Item	
68	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:.....	Item	
69	Clause 11.8 - Vermin F:..... V:..... T:.....	Item	
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70	<p>Clause 11.9 - Overhand work</p> <p>F:..... V:..... T:.....</p>	Item		
71	<p>Clause 11.10 - Tenant installations by direct contractors</p> <p>F:..... V:..... T:.....</p>	Item		
72	<p>Clause 11.11 - Advertising</p> <p>F:..... V:..... T:.....</p>	Item		
	<u>Preliminaries schedule (B12)</u>			
73	<p>Information for completion of the preliminaries schedule</p> <p>Information necessary for elections and completion of those clauses contained in the preliminaries schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract</p> <p>12.1 - Provisional bills of quantities [2.2]</p> <p style="padding-left: 40px;">The quantities are provisional - <u>Yes</u></p> <p>12.2 - Availability of construction information [2.3]</p> <p style="padding-left: 40px;">Construction documentation is complete - <u>No</u></p> <p>12.3 - Previous work - dimensional accuracy [3.1]</p> <p>12.4 - Previous work - defects [3.2]</p> <p>12.5 - Inspection of adjoining properties [3.3]</p> <p>12.6 - Defined works area [4.1]</p> <p>12.7 - Handover of site in stages [4.2]</p>			
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12.8 - Enclosure of the works [4.3]	
12.9 - Geotechnical investigation [4.4]	
12.10 - Existing premises occupied [4.6]	
12.11 - Services - known [4.7]	
12.12 - Protection of trees and/or relevant natural features [4.8]	
12.13 - Water [8.1]	
Option A (by contractor) - <u>Yes</u>	
Option B (by employer - free of charge) - <u>No</u>	
Option C (by employer - metered) - <u>No</u>	
12.14 - Electricity [8.2]	
Option A (by contractor) - <u>Yes</u>	
Option B (by employer - free of charge) - <u>No</u>	
Option C (by employer - metered) - <u>No</u>	
12.15 - Ablution and welfare facilities [8.3]	
Option A (by contractor) - <u>Yes</u>	
Option B (by employer - free of charge) - <u>No</u>	
12.16 - Communication facilities [8.4]	
12.17 - Protection of the works [11.1]	
12.18 - Protection/isolation of existing/sectionally occupied works [11.2]	
Protection/isolation is required - <u>Yes</u>	
12.19 - Disturbance [11.5]	
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	12.20 - Environmental disturbance [11.6]		
	Controlling all forms of pollution		
	The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due <i>inter alia</i> to noise, artificial light, wind-blown sand, dust, deposits of mud, etc		
	The contractor is to ensure that all roads which border the site and is used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works		
	F:..... V:..... T:.....	Item	
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
	Section C		
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item		
	The warranty will not be enforced if the work is damaged by defects in the execution of the works , in which case the responsibility for replacement shall rest entirely with the contractor		
	F:..... V:..... T:.....	Item	
74	Overtime		
	Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer		
	F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

	Brought Forward		R
75	<p>Co-operation of the contractor for cost management</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget</p> <p>F:..... V:..... T:.....</p>	Item	
76	<p>Overloading</p> <p>The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense</p> <p>F:..... V:..... T:.....</p>	Item	
77	<p>Propping of floors below</p> <p>The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>		

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

		R	
	Brought Forward		
78	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p> <p>The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating</p> <p>F:..... V:..... T:.....</p>	Item	
79	<p>Advertising rights</p> <p>The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting the obligations under this agreement</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
<p>Section No. 1 Bill No. 1 Preliminaries</p>			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
 CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
 AND KWAMNYANDU STATION

	Brought Forward		R
80	<p>Confidentiality</p> <p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works</p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the employer</p> <p>F:..... V:..... T:.....</p>	Item	
81	<p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer</p> <p>The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement connected with this project to be printed, screened or aired by the media</p> <p>F:..... V:..... T:.....</p> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>	Item	
	Carried to Final Summary		R
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>		

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 1</u>			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>Existing structures</u>			
	In taking down and removing existing work, the utmost care shall be taken to prevent any structural or other damage to the remaining portions on the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work, Any damage to the structure and/or building as well as the rectification of same will be for the contractor's account			
	<u>Services</u>			
	Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary.			
	<u>Dust and noise</u>			
	The Contractor is to take all necessary precautions to the satisfaction of the Representative/Agent to prevent any nuisance from the dust and /or noise whilst carrying out the work.			
	Carried Forward		R	
	Section No. 2 Bill No. 1 Alterations and Renovations			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
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Brought Forward				R
<u>Disposal of debris</u>				
The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work which removal is deemed to be included in the rates unless otherwise stated.				
Rates for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing				
Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
<u>Temporary support to openings through existing walls</u>				
Making openings, altering openings in existing walls and removing lintels above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling, strutting, turning pieces, etc. to walls openings is deemed to be included in the contractor's rates.				
<u>Electrical and Mechanical</u>				
Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included.				
<u>REMOVAL OF EXISTING WORK</u>				
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
1	Roof sheeting from structural steel support structure including damaged fascia and barge boards A : 660 B : 652 C : 1083 D : 1291	m2	3 686	
2	Acoustic tile suspended ceilings including suspension grid, hangers, etc A : 544 B : 212 C : 107 D : 429	m2	1 292	
Carried Forward				R
Section No. 2 Bill No. 1 Alterations and Renovations				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Brought Forward				R
	<u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good face brickwork on one side and cement plaster on other side (making good paintwork elsewhere)</u>			
3	Timber doors, size 813 x 2032mm A : 63 B : 0 C : 0 D : 0	No	63	
	<u>Hacking up/off and removing floor tile and wall finishes, including removing mortar bed or backing from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>			
4	Ceramic tile and preparing screed to receive new floor coverings A : 719 B : 319 C : 433 D : 1474	m2	2 945	
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
5	Vitreous china wash hand basin A : 19 B : 6 C : 11 D : 14	No	50	
6	Vitreous china WC pan with cistern A : 27 B : 7 C : 17 D : 15	No	66	
	<u>Taking out/off and removing sundry metalwork</u>			
7	Galvanised rainwater goods downpipes A : 140 B : 103 C : 92 D : 118	m	452	
8	Steel gutters A : 335 B : 242 C : 220 D : 279	m	1 076	
Carried Forward				R
Section No. 2 Bill No. 1 Alterations and Renovations				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
 CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
 AND KWAMNYANDU STATION

	Brought Forward			R
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
9	Remove all loose paint, surface contaminants, friable materials. Remove any mould release agent using clean water, leaving surface clean, dry and dust free. Concrete soffits to be painted, rippel paint texture. 15mm smooth plaster to underside of soffit & painted. Prime surface with one coat professional plaster primer with an overcoating time of 18 hours and finish with two coats of matt paint with an overcoating time of 4 hours. All in strict specifications as per data sheets which may be provided on request, in accordance with preferred manufacturers	m2	1 774	
	A : 61 B : 154 C : 1559 D : 0			
	<u>MAKING GOOD OF FINISHES ETC</u>			
	<u>Making good plaster</u>			
10	Wall plaster in patches	m2	5 512	
	A : 2616 B : 1304 C : 972 D : 620			
	Carried Forward to Summary of Section No. 2			
	Section No. 2			R
	Bill No. 1			
	Alterations and Renovations			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

Item No		Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BILL NO. 2</u>				
<u>ROOF COVERINGS</u>				
<u>PREAMBLES</u>				
The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
<u>ROOF SHEETING</u>				
<u>Concealed Fix interlocking 0,58mm thick heavy industrial Z275 spelter galvanised steel sheeting with Chromadek, ColorPlus, Colourbond or Globalcoat finish to one side and Grey other side and accessories, fixed to steel purlins using SL 700 approved clips and fasteners. Cover width 700mm. High wind - 120km/h plus - loading to be considered with installation and fixing must be in accordance with manufacturer's recommendations and specifications.</u>				
1	Roof sheeting pitch no exceeding 18 degrees A : 600 B : 652 C : 1083 D : 1291	m2	3 626	
<u>ROOF AND WALL INSULATION</u>				
<u>Heavy industrial grade aluminium foil based insulation</u>				
2	Insulation laid taut over purlins (at approximately 1600mm centres) and fixed concurrent with roof covering including galvanised steel straining wires A : 600 B : 652 C : 1083 D : 1291	m2	3 626	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Bill No. 2 Roof Coverings				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
 CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 3</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Joinery</u>			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<u>Decorative laminate finish</u>			
	Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
	<u>Timber</u>			
	All softwood to be South African Pine			
	Carried Forward		R	
	Section No. 2 Bill No. 3 Carpentry and Joinery			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

	Brought Forward			R
	<p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p> <p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in linea metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p> <p><u>ROOFS, ETC</u></p> <p><u>FASCIAS AND BARGE BOARDS</u></p>			
1	<p>15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 754mm centres and jointed with and including standard aluminium halfround cover strips at all</p> <p style="text-align: center;">A : 335 B : 0 C : 0 D : 0</p>	m	335	
	Carried Forward			R
	<p>Section No. 2</p> <p>Bill No. 3</p> <p>Carpentry and Joinery</p>			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Brought Forward				R
<u>DOORS ETC</u>				
<u>Heavy duty anti bandit timber door, with gms (coastal) or ms (inland) pressed metal frame to suite door & wall. Including 300x300mm glass viewing panels with aluminium frames and rubber gaskets.</u>				
2	900 x 2032 x 44mm aluminium framed solid door - TP-01 A : 2 B : 2 C : 3 D : 3	No	10	
3	900 x 2032 x 44mm aluminium framed solid door - TP-04 A : 1 B : 1 C : 3 D : 4	No	9	
<u>Semi solid timber door sides and concealed edges to suit opening, door to be fitted with 3 x hinges per leaf all to specialist details. Colour of the door and frame to architect's specialist.</u>				
4	900 x 2100mm aluminium framed solid door - TP-02 A : 14 B : 2 C : 9 D : 3	No	28	
5	900 x 2100mm aluminium framed solid door - TP-06 A : 32 B : 7 C : 10 D : 10	No	59	
<u>Solid timber door sides and concealed edges to suit opening, door to be fitted with 3 x hinges per leaf all to specialist details. Colour of the door and frame to architect's specialist.</u>				
6	900 x 2100mm steel framed (elsewhere) solid door - TP-03 A : 14 B : 4 C : 13 D : 13	No	44	
<u>FIRE DOORS ETC</u>				
<u>Class "B" 2 hour fire rated solid hardwood double door, all purpose made, steel frame to suite door & wall. Primed & painted with 2 coats</u>				
7	1800 X 2100mm aluminium framed solid door - TP-01	No	1	
<u>BULLET RESISTANT DOOR</u>				
Carried Forward				R
Section No. 2 Bill No. 3 Carpentry and Joinery				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
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CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
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Brought Forward			R
8	<p><u>Level g3 bullet resistant anti-bandit door, complete with 100 x 50 x 3mm gauge mild steel rectangular frame and 25 x 25 x 3mm ms anlge rebates, overall size 930 x 2100mm high in powder coating and or galvanised cladding with peep hole, supplied with a 6 pin tumbler key system, mortice dead lock with an additional heavy duty magnetic lock and striker including key switch and surface mounted casing, 6 amp power supply, push buttons and interlock system, heavy duty aluminium continuous hinge, aluminium slam bar with heavy duty door closer and d-style pull handles. Door to comply to sabs 1658-1996</u></p> <p>Door size 900 x 2032mm</p>	No	1
<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 3 Carpentry and Joinery</p>			R

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLÉ, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

Item No	Quantity	Rate	Amount
<p><u>SECTION NO.2</u></p> <p><u>BILL NO. 4</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Note:</u></p> <p>Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Section No.1, Bill No.1, shall equally apply to this Bill.</p>			
<p>Section No. 2</p> <p>Bill No. 4</p> <p>Ceilings, Partitioning and access flooring</p>		<p>Carried Forward</p>	<p>R</p>

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

		Brought Forward			R
<u>CEILINGS ETC</u>					
<u>SUSPENDEd CEILINGS</u>					
<u>Tegular lay-in metal ceiling tiles with perforation type rg0701, size 600 x 600 x 0,5mm thick including black soundtex(r) acoustic fleece infill material bonded to tiles with four shallow tegular edges and owa white powder coated finish laid on owaconstruct, cliq system s33 exposed demountable t24 tee suspension system including galvanised main tees and cross tees, all suspended with galvanised hangers at centres not exceeding 1200mm and all installed to manufacturer's specification. Ceiling perimeter to be finished with prepainted owaconstruct shadowline w-trim.</u>					
1	Suspended Ceilings	m2	225		
	A : 0 B : 0 C : 0 D : 225				
<u>9,5mm Flush plaster gypsum or Magna Board ceiling fixed to concealed suspended tee system skimmed. Ceiling grid to be 1200 c/c. Fixed to concealed suspended tee system, skimmed and prepared to receive 2 coats quality pva paint (elsewhere). All in strict accordance with manufactures specification & requirements.</u>					
2	Suspended Ceilings	m2	163		
	A : 110 B : 14 C : 14 D : 25				
<u>12mm Flush plaster gypsum or Magna Board ceiling fixed to concealed suspended tee system skimmed. Ceiling grid to be 1200 c/c. Fixed to concealed suspended tee system, skimmed and prepared to receive 2 coats quality pva paint (elsewhere). All in strict accordance with manufactures specification & requirements.</u>					
3	Suspended Ceilings	m2	497		
	A : 174 B : 82 C : 51 D : 190				
		Carried Forward			R
Section No. 2 Bill No. 4 Ceilings, Partitioning and access flooring					

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		Brought Forward			R
	<u>12.5mm vinyl faced gypsum ceiling panels, face-covered with white embossed vinyl, size 1200 x 600mm, laid on fire rated cliq system s3 exposed demountable suspension system including galvanised main tees, cross Tees, etc., all suspended with galvanised hangers at centres not exceeding 1200mm, with ceiling perimeter finished with shadowline w-trim plugged at 200mm centres, and all installed to manufacturer's Instructions.</u>				
4	Suspended Ceilings			m2	418
	A : 260	B : 116	C : 42	D : 0	
	<u>CEILING INSULATION</u>				
5	50mm cellulose fibre insulation applied strictly in accordance with the manufacturer's instructions.			m2	1 303
	A : 544	B : 212	C : 107	D : 440	
<p style="text-align: center;">Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 4 Ceilings, Partitioning and access flooring</p>					R

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
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Item No	Quantity	Rate	Amount
<u>SECTION NO.2</u>			
<u>BILL NO. 5</u>			
<u>IRONMONGERY</u>			
<u>PREAMBLES</u>			
The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
<u>BUDGETARY ALLOWANCES</u>			
<u>IRONMONGERY FIXED TO DOORS, etc.</u>			
1			
	Allow an amount of R47 250,00 (Forty Seven Thousand Two Hundred and Fifty Rand) for the ironmongery to specialist according to the schedule at Lindokuhle Station		
	Item		47 250,00
2			
	Allow an amount of R22 500,00 (Twenty Two Thousand Five Hundred Rand) for the ironmongery to specialist according to the schedule at Zwelethu Station		
	Item		22 500,00
3			
	Allow an amount of R28 500,00 (Twenty Eight Thousand Five Hundred Rand) for the ironmongery to specialist according to the schedule at Reunion Station		
	Item		28 500,00
4			
	Allow an amount of R43 250,00 (Forty Three Thousand Two Hundred and Fifty Rand) for the ironmongery to specialist according to the schedule at KwaMnyandu Station		
	Item		43 250,00
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 5			
Ironmongery			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
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AND KWAMNYANDU STATION**

Item No	Quantity	Rate	Amount
<u>SECTION NO.2</u>			
<u>BILL NO. 6</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
<u>PRESSED STEEL TRANSFORMER ROOM</u>			
<u>DOORS AND FRAMES</u>			
<u>Galvanised and epoxy coated m/s steel door sides and concealed edges to suit opening, door to be fitted with 3 x hinges per leaf all to specialist details.</u>			
1	Door size 900mm x 2100mm - TP-05 A : 6 B : 6 C : 6 D : 9	No 27	
<u>STEEL ROLLER SHUTTERS ETC</u>			
Carried Forward			R
Section No. 2 Bill No. 6 Metalwork			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
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AND KWAMNYANDU STATION

Brought Forward				R
<u>Approved roll-up perforated galvanised, sabs 1461, & epoxy coated m/s perforated roller shutter door. Electrically operated with 220 volt hl600 motor with manual override, with 75 x 1.0mm thick galv. Endlocked slats complete with nylon end-locks, 120mm extra-wide tamper proof m/s guides, powder coated ancillary components including door curtain, 4.5mm thick end plates, guide rails, closed shaft, extruded aluminium t-bar with astragal rubber weather seal, & single span (no join) galv. Cover box. Operated with high security key switch. Fixed to brick, concrete or structural steel jambs and structural steel beam over. Contractor to provide cavity of 160mm x 120mm for recessing guides.</u>				
2	Electrically operated slatted roller shutter for 925 x 700mm high opening A : 0 B : 0 C : 0 D : 1	No	1	
3	Electrically operated slatted roller shutter for 925 x 1100mm high opening A : 6 B : 6 C : 7 D : 3	No	22	
4	Electrically operated slatted roller shutter for 1800x 2500mm high opening A : 0 B : 8 C : 0 D : 0	No	8	
5	Electrically operated slatted roller shutter for 2350 x 2100mm high opening A : 0 B : 0 C : 0 D : 8	No	8	
6	Electrically operated slatted roller shutter for 2400 x 1100mm high opening A : 0 B : 0 C : 0 D : 6	No	6	
7	Electrically operated slatted roller shutter for 2600 x 2400mm high opening A : 0 B : 2 C : 0 D : 0	No	2	
<u>PRESSED STEEL DOOR FRAMES</u>				
Carried Forward				R
Section No. 2 Bill No. 6 Metalwork				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Brought Forward				R
<u>Standard single rebate steel frame suitable for one brick wall, with 1 pr. 100mm brass butt hinges. Clean down, prepare and apply 1 coat red oxide. Primer 1 undercoat, 2 coats enamel to developer's approval (elsewhere)</u>				
8	Single door size frame 813 x 2032 mm high A : 14 B : 4 C : 13 D : 13	No	44	
<u>ALUMINIUM WINDOWS, ETC</u>				
<u>Standard aluminium window frame. Manufactured with approved aluminium sections. Powder coated to Architect's spec. Supplied with glazing (clear glass and opaque glass in bathrooms). Manufacturer to fit galvanised steel lugs to frame, to built into brick wall to spec. (as per schedule)</u>				
9	Window panel, size 560 x 540mm high - Lindokuhle (TP-01) A : 24 B : 0 C : 0 D : 0	No	24	
10	Window panel, size 1155 x 540mm high - Lindokuhle (TP-02) A : 9 B : 0 C : 0 D : 0	No	9	
11	Window panel, size 1600 x 1495 mm high - Lindokuhle (TP-03) A : 10 B : 0 C : 0 D : 0	No	10	
12	Window panel, size 700 x 1100mm high - Lindokuhle (TP-04) A : 6 B : 0 C : 0 D : 0	No	6	
13	Window panel, size 1155 x 540mm high - Zwelethu (TP-01) A : 0 B : 13 C : 0 D : 0	No	13	
14	Window panel, size 700 x 1100mm high - Zwelethu (TP-04) A : 0 B : 5 C : 0 D : 0	No	5	
15	Window panel, size 560 x 540mm high - Zwelethu (TP-04) A : 0 B : 14 C : 0 D : 0	No	14	
Carried Forward				R
Section No. 2 Bill No. 6 Metalwork				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

	Brought Forward			R
16	Window panel, size 700 x 1100mm high - Reunion (TP-01) A : 0 B : 0 C : 7 D : 0	No	7	
17	Window panel, size 1200 x 540mm high - Reunion(TP-03) A : 0 B : 0 C : 4 D : 0	No	4	
18	Window panel, size 600 x 600mm high - Reunion (TP-04) A : 0 B : 0 C : 12 D : 0	No	12	
19	Window panel, size 1200 x 1200mm high - Reunion(TP-05) A : 0 B : 0 C : 4 D : 0	No	4	
20	Window panel, size 1930 x 1200mm high - Reunion (TP-06) A : 0 B : 0 C : 4 D : 0	No	4	
21	Window panel, size 1855 x 1100 mm high - Reunion(TP-07) A : 0 B : 0 C : 4 D : 0	No	4	
22	Window panel, size 700 x 1100mm high - KwaMnyandu (TP-01) A : 0 B : 0 C : 0 D : 3	No	3	
23	Window panel, size 600 x 600mm high - KwaMnyandu (TP-03) A : 0 B : 0 C : 0 D : 6	No	6	
24	Window panel, size 700 x 800mm high - KwaMnyandu (TP-04) A : 0 B : 0 C : 0 D : 1	No	1	
25	Window panel, size 2800 x 2100mm high - KwaMnyandu (TP-07) A : 0 B : 0 C : 0 D : 5	No	5	
26	Window panel, size 2100 x 1100mm high - KwaMnyandu (TP-08) A : 0 B : 0 C : 0 D : 6	No	6	
	Carried Forward			R
Section No. 2 Bill No. 6 Metalwork				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

Brought Forward				R
<u>ALUMINIUM DOORS, ETC</u>				
<u>Standard aluminium window frame. Manufactured with approved aluminium sections. Powder coated to Architect's spec. Supplied with glazing (clear glass and opaque glass in bathrooms). Manufacturer to fit galvanised steel lugs to frame, to built into brick wall to spec. (as per schedule)</u>				
27	Door size 1300 x 2100mm high (TP-09) A : 1 B : 0 C : 0 D : 0	No	1	
28	Door size 5340 x 3000 mm high (TP-12) A : 0 B : 0 C : 0 D : 1	No	1	
<u>FENCE</u>				
<u>2.1m High Security Galvanized Fence. 76x12.7mm Mesh apperture. Wire diameter of 3mm Horizontal and 4mm Vertical. 4 stiffening wire bend Internal fixtures-Anti Vandal/Climb etc, Including Galvanized Taper Locking Post sealed with steel Cap, Galvanized Single and Double combo Clamp or similar Approved</u>				
29	Door size 900 x 2145mm high (TP-09) A : 610 B : 790 C : 0 D : 0	m	1 400	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 6				
Metalwork				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
 CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
 AND KWAMNYANDU STATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO.7</u>			
	<u>TILING</u>			
	<u>PREAMBLES</u>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding.			
	<u>FLOOR TILING</u>			
	<u>Full bodied porcelain tiles, size 600 x 600mm x 10mm (P.C allowance of R 150.00/m2 excludes V.A.T. but includes delivery to site), min R9 preferably R10 slip rated fixed to internal floor screed with tile adhesive mixed with bonding liquid in lieu of water with diagonal joints continuous in both directions and grouted with 3mm tile grout, excess grout on the surface to be cleaned with water as work proceeds.</u>			
1	On floors A : 545 B : 319 C : 433 D : 669	m2	1 966	
2	100mm high skirting A : 320 B : 225 C : 220 D : 0	m	765	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Bill No. 7			
	Tiling			
			R	

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 8</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<u>Note:</u>			
	All glazed ceramic sanitaryware to comply with SABS 497			
	All stainless steelware for medical institutions to comply with SABS 497			
	Stainless steel sinks to comply with SABS 907			
	Stainless steel washtroughs to comply with SABS 906			
	Cisterns to comply with SABS 821 and fitments to SABS 1509			
	All taps to comply to SABS 226			
	<u>RAINWATER GOODS</u>			
	<u>225 x 225mm 1,2mm Powder coated aluminium gutters including rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by hangers with downpipes (elsewhere specified). Install strictly to manufacturer's specifications. Profile, type and finish all to Architect's approval</u>			
1	Extruded aluminium gutters with 20mm overlapping joints sealed with and including bitumen impregnated foam plastic joint sealing strip and riveted at 20mm centres A : 335 B : 242 C : 220 D : 279	m	1 076	
	Carried Forward		R	
	Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
 CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
 AND KWAMNYANDU STATION

Brought Forward				R
2	80mm x 1,2mm Powder coated aluminium down pipe fixed to brick wall including brackets	m	453	
	A : 140 B : 103 C : 93 D : 118			
3	Extra over eaves gutter for offset	No	181	
	A : 56 B : 41 C : 37 D : 47			
4	Extra over eaves gutter for outlet	No	181	
	A : 56 B : 41 C : 37 D : 47			
5	Extra over eaves gutter for stopped end	No	181	
	A : 56 B : 41 C : 37 D : 47			
6	Extra over for shoe	No	181	
	A : 56 B : 41 C : 37 D : 47			
<u>SANITARY FITTINGS</u>				
Refer to sanitary schedule drawing for full description of abbreviations				
<u>Approved</u>				
7	Vitreous china close coupled washdown suite colour: white, comprising 90Deg. outlet open rim pan and matching 6 litre top dual flush cistern including lid and fitments, with thermoset seat.	No	66	
	A : 27 B : 7 C : 17 D : 15			
8	Ceramic fire clay drop-in vanity basin, colour: white, size 595 x 455mm including chain stay hole fitted into opening in vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top.	No	50	
	A : 19 B : 6 C : 11 D : 14			
<u>WASTE UNIONS, TRAPS ETC.</u>				
<u>The following sanitary fittings to SABS specifications, etc.</u>				
<u>Approved</u>				
9	32mm chrome plated bottle trap	No	50	
	A : 19 B : 6 C : 11 D : 14			
<u>TAPS, FLUSH VALVES, ETC</u>				
Carried Forward				R
Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Brought Forward				R
<u>Approved</u>				
10	Selene basin mixer including valves A : 19 B : 6 C : 11 D : 14	No	50	
<u>TESTING</u>				
11	Testing water pipe system A : 1.00 B : 0.00 C : 0.00 D : 0.00	Item		
<u>SANITARY PLUMBING</u>				
<u>Sewer and drainage pipes and fittings shall be through Solid wall Class 34 uPVC socketed soil piping in according to SABS 791, jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be according to SABS 967 and solvent jointed Cold water supply pressure pipes and fittings shall be according to SABS 966 and jointed by means of the "Lyng" type jointing system Pipes shall be fixed and jointed according to SABS 0112</u>				
<u>Class 34 uPVC Pipe</u>				
12	50mm pipes A : 22 B : 13 C : 10 D : 5	m	50	
13	110mm pipes A : 34 B : 102 C : 12 D : 5	m	153	
14	160mm pipes A : 36 B : 0 C : 50 D : 0	m	86	
<u>Class 34 uPVC FITTINGS</u>				
15	50mm 90 degree Bend A : 10 B : 3 C : 0 D : 0	No	13	
16	50mm 45 degree Bend A : 10 B : 2 C : 0 D : 0	No	12	
17	50mm Equal Access junction A : 13 B : 12 C : 10 D : 10	No	45	
18	110mm 45 degree Bend A : 5 B : 2 C : 0 D : 0	No	7	
Carried Forward				R
Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
 CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
 AND KWAMNYANDU STATION

Brought Forward					R
19	110mm pan connector	No	39		
	A : 9 B : 17 C : 3 D : 10				
20	110mm 90 degree Bend	No	7		
	A : 5 B : 2 C : 0 D : 0				
21	110mm 90 degree access Bend	No	7		
	A : 5 B : 2 C : 0 D : 0				
22	110mm diameter - 50mm diameter junction	No	33		
	A : 9 B : 11 C : 3 D : 10				
23	110mm Equal Access junction	No	4		
	A : 3 B : 1 C : 0 D : 0				
24	160mm diameter- 110mm diameter junction	No	13		
	A : 10 B : 0 C : 3 D : 0				
25	160mm diameter 90 Deg Bend	No	8		
	A : 3 B : 0 C : 5 D : 0				
<u>Pipe Hangers - Anchor, Treaded Rod & Hanger</u>					
26	50mm	No	6		
	A : 4 B : 2 C : 0 D : 0				
27	110mm	No	6		
	A : 4 B : 2 C : 0 D : 0				
<u>WATER SUPPLY</u>					
<u>COLD WATER RETICULATION</u>					
<u>Replace defective pipe sections and fittings</u>					
<u>PEX Piping</u>					
28	15mm Diameter pipe.	m	257		
	A : 145 B : 47 C : 15 D : 50				
29	22mm Diameter pipe.	m	142		
	A : 75 B : 22 C : 15 D : 30				
<u>Extra over PEX pipes for fittings:</u>					
30	15mm elbow.	No	268		
	A : 172 B : 56 C : 10 D : 30				
Carried Forward					R
Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)					

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
 CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
 AND KWAMNYANDU STATION

	Brought Forward			R
31	22mm elbow. A : 20 B : 23 C : 6 D : 30	No	79	
32	22mm equal Tee A : 64 B : 19 C : 6 D : 30	No	119	
33	22-15 mm Reducer A : 60 B : 19 C : 6 D : 30	No	115	
<u>Plastic Pipe Compression Fittings And Valves</u>				
34	15mm elbow. A : 23 B : 4 C : 3 D : 20	No	50	
35	22mm Isolation Valve. A : 23 B : 4 C : 3 D : 12	No	42	
36	22mm Strainer Valve A : 23 B : 4 C : 3 D : 12	No	42	
<u>Pipe Hangers - Anchor, Treaded Rod & Hanger</u>				
37	15mm Diameter pipe. A : 44 B : 26 C : 20 D : 30	No	120	
38	22mm Diameter pipe. A : 29 B : 13 C : 10 D : 25	No	77	
<u>Heavy brown paper loosely wrapped around pipe as sheath for expansion.</u>				
39	15 - 22mm Diameter pipe. A : 25 B : 50 C : 15 D : 50	m	140	
40	Provision For Pipework Chasing and Making Good After A : 20 B : 45 C : 15 D : 50	m	130	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 8				
Plumbing and Drainage (Provisional)				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BILL NO. 9</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>PAINTWORK ETC TO EXISTING WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare and apply one coat professional plaster primer and two coats acrylic PVA paint. Colour to Architect and Client Approval</u>			
1	Plastered walls A : 2616 B : 1304 C : 972 D : 620	m2	5 512	
	<u>METAL SURFACES</u>			
	<u>Prepare and apply one coat professional plaster primer, universal undercoat and two coats super enamel. Colour to Architect and Client Approval</u>			
2	On doors frames A : 25 B : 7 C : 23 D : 23	m2	79	
	<u>ON WOOD</u>			
	<u>Prepare and paint three coats clear varnish:</u>			
3	On doors A : 208 B : 113 C : 106 D : 204	m2	631	
	Carried Forward			
	Section No. 2 Bill No. 9 Paintwork		R	

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

Brought Forward				R
<u>SMOOTH CONCRETE</u>				
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use. Colour to Architect and Client Approval</u>				
4	Soffits of slab	m2	1 814	
	A : 61 B : 154 C : 1599 D : 0			
<u>PAINTWORK ETC TO NEW WORK</u>				
<u>ON PLASTER BOARD</u>				
<u>Prepare and apply one coat primer and two coats internal paint with mat finish. Colour to Architect and Client Approval</u>				
5	On internal ceilings and cornices	m2	307	
	A : 174 B : 82 C : 51 D : 0			
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 9				
Paintwork				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 10</u>			
<u>PROVISIONAL SUMS</u>			
<u>Note</u>			
The items described hereunder cover work which is not fully defined at tender date and which is intended to be executed by the contractor and/or his subcontractors. The amounts shown shall be used as directed by the principal agent and shall be deducted in all or in part if not required.			
<u>STATION FIXED FURNITURE</u>			
1	Allow an amount of R140 000,00 (One Hundred and Forty Thousand Rand) for the installation of fixed furniture at Lindokuhle Station	Item	140 000,00
2	Allow an amount of R140 000,00 (One Hundred and Forty Thousand Rand) for the installation of fixed furniture at Zwelethu Station	Item	140 000,00
3	Allow an amount of R140 000,00 (One Hundred and Forty Thousand Rand)for the installation of fixed furniture at Reunion Station	Item	140 000,00
4	Allow an amount of R80 000,00 (Eighty Thousand Rand)for the installation of fixed furniture at KwaMnyandu Station	Item	80 000,00
5	Profit	%	
6	Attendance	%	
<u>STATION SIGNAGE</u>			
7	Allow an amount of R40 000,00 (Forty Thousand Rand) for the installation of missing signage at Lindokuhle Station	Item	40 000,00
Carried Forward			R
Section No. 2 Bill No. 10 Provisional Sums			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

	Brought Forward		R
8	Allow an amount of R40 000,00 (Forty Thousand Rand) for the installation of missing signage at Zwelethu Station	Item	40 000,00
9	Allow an amount of R40 000,00 (Forty Thousand Rand) for the installation of missing signage at Reunion Station	Item	40 000,00
10	Allow an amount of R40 000,00 (Forty Thousand Rand) for the installation of missing signage at KwaMnyandu station	Item	40 000,00
11	Profit	%	
12	Attendance	%	
	<u>COMMUNITY LIAISON OFFICER</u>		
13	Allow an amount of R90 000,00 (Ninety Thousand Rand) for a Community Liaison Officer at Lindokuhle Station	Item	90 000,00
14	Allow an amount of R90 000,00 (Ninety Thousand Rand) for a Community Liaison Officer at Zwelethu Station	Item	90 000,00
15	Allow an amount of R90 000,00 (Ninety Thousand Rand) for a Community Liaison Officer at Reunion Station	Item	90 000,00
16	Allow an amount of R90 000,00 (Ninety Thousand Rand) for a Community Liaison Officer KwaMnyandu Station.	Item	90 000,00
17	Profit	%	
	<u>ELEVATOR SERVICING</u>		
18	Allow an amount of R800 000,00 (Eight Hundred Thousand Rand) for the Full Service And Restoration of two (2) Passenger Lift Cars to their Original Operating Condition at KwaMnyandu Station	Item	800 000,00
19	Profit	%	
20	Attendance	%	
	Carried Forward		R
	Section No. 2		
	Bill No. 10		
	Provisional Sums		

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Brought Forward			R
<u>PROTECTION SERVICES</u>			
21	Allow an amount of R200 000,00 (Two Hundred Thousand Rand) for occupation at Lindokuhle Station	Item	200 000,00
22	Allow an amount of R200 000,00 (Two Hundred Thousand Rand) for occupation at Zwelethu Station	Item	200 000,00
23	Allow an amount of R200 000,00 (Two Hundred Thousand Rand) for occupation at Reunion Station	Item	200 000,00
24	Allow an amount of R200 000,00 (Two Hundred Thousand Rand) for occupation at Kwamnyandu Station	Item	200 000,00
25	Profit		%
26	Attendance		%
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 10			
Provisional Sums			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLÉ, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

Item No		Quantity	Rate	Amount
<u>SECTION NO.2</u>				
<u>BILL NO.11</u>				
<u>BUDGETARY ALLOWANCES</u>				
<u>Note</u>				
The items described hereunder cover work which is not fully defined at tender date and which is intended to be executed by the contractor and/or his subcontractors. The amounts shown shall be used as directed by the principal agent and shall be deducted in all or in part if not required.				
<u>BINS & BENCHES</u>				
1	Allow an amount of R20 000,00 (Twenty Thousand Rand) for bins and benches at Lindokuhle Station	Item		20 000,00
2	Allow an amount of R90 000,00 (Ninety Thousand Rand) for bins and benches at Zwelethu Station	Item		90 000,00
3	Allow an amount of R90 000,00 (Ninety Thousand Rand) for bins and benches at Reunion Station	Item		90 000,00
4	Allow an amount of R30 000,00 (Thirty Thousand Rand) for bins and benches at KwaMnyandu Station	Item		30 000,00
5	Profit		%	
<u>RESURFACING</u>				
6	Allow an amount of R25 000,00 (Twenty Five Thousand Rand) for the resurfacing on the platforms at Lindokuhle Station	Item		25 000,00
7	Allow an amount of R50 000,00 (Fifty Thousand Rand) for the resurfacing on the platforms at Umbilo Station	Item		50 000,00
Carried Forward			R	
Section No. 2 Bill No. 11 Budgetary Allowances				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

	Brought Forward		R
8	Allow an amount of R25 000,00 (Twenty Five Thousand Rand) for the resurfacing on the platforms at Reunion Station	Item	25 000,00
9	Allow an amount of R30 000,00 (Thirty Thousand Rand) for repairs to the stormwater drain by the entrance at KwaMnyandu Station	Item	30 000,00
10	Profit	%	
	<u>CONCRETE PALISADE FENCE</u>		
11	Allow an amount of R115 000,00 (One Hundred and Fifteen Thousand Rand) for the Installation of a concrete palisade fence at Reunion Station	Item	115 000,00
12	Profit	%	
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 11			
Budgetary Allowances			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

Bill No	SECTION SUMMARY - BUILDER'S WORK	Page No	Amount
1	Alterations and Renovations	27	
2	Roof Coverings	28	
3	Carpentry and Joinery	32	
4	Ceilings, Partitioning and access flooring	35	
5	Ironmongery	36	
6	Metalwork	41	
7	Tiling	42	
8	Plumbing and Drainage (Provisional)	47	
9	Paintwork	49	
10	Provisional Sums	52	
11	Budgetary Allowances	54	
Carried to Final Summary			R
Section No. 2			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>LOW VOLTAGE</u>			
	<u>DISCONNECTION/ REMOVAL OF REDUNDANT ELECTRICAL EQUIPMENT</u>			
	<u>The following equipment shall be isolated, disconnected, removed and handed over to the Employer's</u>			
	<u>LINDOKUHLE STATION</u>			
1	Decommissioning and stripping of existing electrical installations including cables, conductors, luminaires, control devices, DB's, etc in the existing building.	Item		30 000,00
	<u>ZWELETHU STATION</u>			
2	Decommissioning and stripping of existing electrical installations including cables, conductors, luminaires, control devices, DB's, etc in the existing building.	Item		30 000,00
	<u>REUNION STATION</u>			
3	Decommissioning and stripping of existing electrical installations including cables, conductors, luminaires, control devices, DB's, etc in the existing building.	Item		15 000,00
	<u>KWAMNYANDU STATION</u>			
4	Decommissioning and stripping of existing electrical installations including cables, conductors, luminaires, control devices, DB's, etc in the existing building.	Item		20 000,00
	Carried Forward		R	
	Section No. 3 Bill No. 1 Electrical Installation			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Brought Forward			R
<u>LV SWITCHGEAR</u>			
<u>DBs and LV Switchgear</u>			
<u>Manufacture, deliver to site, install, commission, test kiosks, distribution boards as per specification and single line diagram, to be housed in electrical. All electrical panels shall be stainless steel material, rates to include powder coated, busbars and drilling, busbar connections internal wiring etc. Refer to single line diagram for electrical panel colour</u>			
<u>LINDOKUHLE STATION</u>			
5	Distribution board - surface mounted PVC board - Main breaker 63A, 2-pole, to include contactor for lighting with bypass switch 5A breaker, 2x10A circuit breakers for external lighting, 2x10A breaker lighting and 63A earth leakage and 3x20A breakers. DB to be complete with necessary wiring. Busbar and circuit breaker rating shall be 5kA.	No	1
6	Surface mounted UT4 IP65 Box complete with 32A, 1-pole isolator, 3x 10A circuit breakers with complete with busbars	No	2
<u>ZWELETHU STATION</u>			
7	DB - 1	No	1
8	DB - 1A	No	1
9	Surface mounted UT4 IP65 Box complete with 32A, 1-pole isolator, 3x 10A circuit breakers with complete with busbars	No	2
<u>REUNION STATION</u>			
10	Kiosk 1	No	1
11	Kiosk 2	No	1
12	Surface mounted UT4 IP65 Box complete with 32A, 1-pole isolator, 3x 10A circuit breakers with complete with busbars	No	4
<u>KWAMNYANDU STATION</u>			
13	DB - 4	No	1
Carried Forward			R
Section No. 3 Bill No. 1 Electrical Installation			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
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		Brought Forward			R
14	DB - 3	No	1		
15	Surface mounted UT4 IP65 Box complete with 32A, 1-pole isolator, 3x 10A circuit breakers with complete with busbars	No	7		
<u>CABLES AND CONDUCTORS</u>					
<u>Supply, deliver to site cables and conductors as specified. Install, rack, strap and testing of cables as per specification including clamps, ties and cable numbering system</u>					
16	2,5mm conductors (mixed colours - live, neutral and earth) A : 3600 B : 2000 C : 500 D : 1000	m	7 100		
17	2.5 mm ² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 0 B : 20 C : 100 D : 100	m	220		
18	2.5 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 200 B : 200 C : 0 D : 0	m	400		
19	10 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 200 B : 200 C : 1 D : 100	m	501		
<u>CABLES AND CONDUCTORS</u>					
<u>Termination of cables shall include supply installation and testing of the glands with corrosion guard , making-off the cable, lugs, and fitting the gland to the board gland plate, switchgear or equipment and final connection of cable tails into board or terminals. Include for Reducing Glands and shrouds where applicable. NB: IP65 Glands are to be used where applicable.</u>					
20	2,5mm ² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 4 B : 4 C : 2 D : 4	No	14		
21	10 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 4 B : 4 C : 1 D : 4	No	13		
22	25mm PVC Conduit including all necessary accessories. Rate to include chasing wall for conduit in the wall, close wall and make good. A : 100 B : 100 C : 20 D : 100	m	320		
Carried Forward					
Section No. 3 Bill No. 1 Electrical Installation					
				R	

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
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 CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
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		Brought Forward			R
23	32mm steel Conduit including all necessary accessories. Rate to include chasing wall for conduit in the wall and made close made good / surface mounted with required accessories.	m	700		
	A : 200 B : 200 C : 100 D : 200				
24	4-way junction box IP66	No	34		
	A : 12 B : 12 C : 0 D : 10				
<u>LUMINARIES AND CONTROL DEVICES</u>					
<u>Supply, deliver, accept and store the following luminaries, complete with lamps and control gear as per specification. See and refer to the specification document for details of each luminary.</u>					
25	Type A5 - IP65 Rated, 30W / +/-4440 lm LED - 4000k vapour-proof Surface-mounted weather-proof luminaire, GRP body and acrylic diffuser, with 50000 hours lifespan.	No	44		
	A : 10 B : 10 C : 14 D : 10				
26	Type A13 - IP65 Rated, 30W / +/-4440 lm LED - 4000k Rough-guard Surface-mounted weather-proof luminaire, GRP body and acrylic diffuser, with 50000 hours lifespan.	No	71		
	A : 24 B : 36 C : 1 D : 10				
27	Type B1 - IP65 Rated high-pressure die cast aluminium base and trim ring 20W/ +/- 2600lm LED - 4000k bulkhead luminaire with an opal high-impact acrylic diffuser, with 50000 hours lifespan.	No	85		
	A : 20 B : 25 C : 30 D : 10				
28	Type B3 - IP65 Rated high-pressure die cast aluminium base and trim ring 32W/ +/- 4370lm LED - 4000k bulkhead luminaire with an opal high-impact acrylic diffuser, with 50000 hours lifespan.	No	52		
	A : 1 B : 1 C : 25 D : 25				
29	Type C6 - 80W / +/-10000lumen LED (4000k) Floodlight, rated IP65 with powder coating as per specification	No	5		
	A : 2 B : 1 C : 0 D : 2				
30	Type C7 - same as type C6 above, but with battery backup to last 1-hour as per specification	No	1		
	A : 0 B : 1 C : 0 D : 0				
Carried Forward					
Section No. 3 Bill No. 1 Electrical Installation				R	

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
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Brought Forward				R
31	Type FL1 - 180W / +/-27000lm LED (4000k) Streetlight rated IP66 with powder coating as per specification A : 6 B : 13 C : 12 D : 9	No	40	
32	Retrofit existing vapour-proof luminaire with LED tube 28W / on a 4ft vapour-proof luminaire. Also removal of electronic balast for a complete operation of the luminaire. A : 20 B : 20 C : 14 D : 60	No	114	
33	Photo electric cell as per specification A : 3 B : 3 C : 7 D : 2	No	15	
34	Supply and installation of 32 Amp 4-Pole surface mounted isolator, complete with all necessary accessories A : 3 B : 3 C : 2 D : 2	No	10	
35	Replace existing steel cage for lighting. Cage shall be hot dip galvanised 1250mm (L) x 110mm (W) x 110mm (H). A : 16 B : 10 C : 0 D : 4	No	30	
36	1.5mm ² draw wire (not insulated) A : 50 B : 50 C : 0 D : 0	m	100	
<u>TEST AND COMMISSIONING</u>				
<u>LINDOKUHLE STATION</u>				
<u>Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates & test results and submitting them to the Employer's Representative.</u>				
37	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer. Main administration ticket office with guard houses.		Item	30 000,00
<u>ZWELETHU STATION</u>				
<u>Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates & test results and submitting them to the Employer's Representative.</u>				
38	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer.		Item	25 000,00
Carried Forward				R
Section No. 3 Bill No. 1 Electrical Installation				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
AND KWAMNYANDU STATION

Brought Forward			R
<u>REUNION STATION</u>			
<u>Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates & test results and submitting them to the Employer's Representative.</u>			
39	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer.	Item	20 000,00
<u>KWAMNYANDU STATION</u>			
<u>Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates & test results and submitting them to the Employer's Representative.</u>			
40	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer.	Item	20 000,00
<u>BACK-UP GENERATOR</u>			
<u>LINDOKUHLE STATION</u>			
41	Backup diesel Generator - 20kVA, 230VAC single phase, 50Hz, with auto-change over panel. Generator to be installed and supplied with full tank diesel, must be able to Starts & Stops Automatically, Maintenance-free Battery, Silent Weatherproof 3CR12 steel Canopy, Long-range Fuel Tank, Easy Cable Entry, Emergency Stop Button, Weatherproof Exhaust System.	Item	130 000,00
42	50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m 200	
43	Cable gland 50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No 2	
44	Supporting structure for generator set	Item	80 000,00
<u>ZWELETHU STATION</u>			
45	Backup diesel Generator - 60kVA, 400VAC three phase, 50Hz, with auto-change over panel. Generator to be installed and supplied with full tank diesel, must be able to Starts & Stops Automatically, Maintenance-free Battery, Silent Weatherproof 3CR12 steel Canopy, Long-range Fuel Tank, Easy Cable Entry, Emergency Stop Button, Weatherproof Exhaust System.	Item	200 000,00
Carried Forward			R
Section No. 3 Bill No. 1 Electrical Installation			

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AND KWAMNYANDU STATION

	Brought Forward			R
46	50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	200	
47	Cable gland 50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	2	
48	Supporting structure for generator set		Item	80 000,00
<u>REUNION STATION</u>				
49	Backup diesel Generator - 60kVA, 400VAC three phase, 50Hz, with auto-change over panel. Generator to be installed and supplied with full tank diesel, must be able to Starts & Stops Automatically, Maintenance-free Battery, Silent Weatherproof 3CR12 steel Canopy, Long-range Fuel Tank, Easy Cable Entry, Emergency Stop Button, Weatherproof Exhaust System.		Item	200 000,00
50	50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	200	
51	Cable gland 50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	2	
52	Supporting structure for generator set		Item	80 000,00
<u>KWAMNYANDU STATION</u>				
53	Backup diesel Generator - 60kVA, 400VAC three phase, 50Hz, with auto-change over panel. Generator to be installed and supplied with full tank diesel, must be able to Starts & Stops Automatically, Maintenance-free Battery, Silent Weatherproof 3CR12 steel Canopy, Long-range Fuel Tank, Easy Cable Entry, Emergency Stop Button, Weatherproof Exhaust System.		Item	200 000,00
54	50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	200	
55	Cable gland 50 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	2	
56	Supporting structure for generator set		Item	80 000,00
Carried to Final Summary				R
Section No. 3				
Bill No. 1				
Electrical Installation				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 1</u>			
	<u>HVAC INSTALLATION</u>			
	<u>MAIN TICKET OFFICE</u>			
	<u>Supply, deliver and install the following Units as per specification:</u>			
1	2.2 kW Cooling Midwall split Indoor Unit A : 0 B : 0 C : 0 D : 6	No	6	
2	2,2 kW Inverter Type Outdoor Condensing Unit A : 0 B : 0 C : 0 D : 6	No	6	
3	3.6 kW Cooling Midwall split Indoor Unit A : 6 B : 0 C : 0 D : 0	No	6	
4	3.6 kW Inverter Type Outdoor Condensing Unit A : 6 B : 0 C : 0 D : 0	No	6	
5	5 kW Cooling Midwall split Indoor Unit	No	5	
6	5 kW Inverter Type Outdoor Condensing Unit	No	5	
7	14 kW Cooling Underceiling Indoor Unit	No	2	
8	14 kW Inverter Type Outdoor Condensing Unit	No	2	
9	Refrigeration Copper Piping With Thermal Insulation and all associated Fittings. A : 30 B : 15 C : 0 D : 30	m	75	
10	PVC Condensate Drain Piping With Insulation A : 45 B : 15 C : 0 D : 35	m	95	
11	Wired Controller	No	19	
12	Provide Full Service and Relocate The Existing Midwall Split Unit and The outdoor Condensing Unit A : 1.00 B : 1.00 C : 0.00 D : 0.00	Item		20 000,00
13	Service the Existing Ducting , Air Terminals and Fresh Air Supply Systems A : 0.00 B : 0.00 C : 0.00 D : 1.00	Item		40 000,00
	Carried Forward		R	
	Section No. 4 Bill No. 1 Heating, Ventilation and Air-Conditioning			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
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CLUSTER 7 - LINDOKUHLE, ZWELETHU, REUNION
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	Brought Forward		R	
14	Fabricate , Supply and Install locable Sercurity Cages around each Outdoor Condensing Unit	No	22	
15	Inspect And Service The Full VRV & inverter Systems Installed. A : 0.00 B : 0.00 C : 1.00 D : 0.00		Item	150 000,00
Carried to Final Summary			R	
Section No. 4 Bill No. 1 Heating, Ventilation and Air-Conditioning				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
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Item No		Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>BILL NO. 1</u>				
<u>FIRE PROTECTION</u>				
<u>MAIN TICKET OFFICE</u>				
<u>Supply, deliver and install all Fire appliances and piping with complete with all auxiliary fittings .:</u>				
1	Service The Fire Detection A : 0 B : 0 C : 0 D : 1		SUM	
2	Photoluminated Directional Signage A : 0 B : 0 C : 1 D : 1		SUM	
3	Photoluminated Fire Signage A : 0 B : 0 C : 1 D : 1		SUM	
<u>PLATFORMS</u>				
<u>Black Mild Steel Fittings</u>				
4	25, 90 Degree Threaded Elbow	No	16	
5	25mm steel Union	No	15	
6	80, 90 Degree Threaded Elbow A : 0 B : 6 C : 0 D : 12	No	18	
7	80, Equal Threaded Tee A : 0 B : 15 C : 0 D : 9	No	24	
<u>Black Mild Steel Piping</u>				
8	25 mm Pipes A : 0 B : 10 C : 0 D : 30	m	40	
9	80 mm Pipes A : 0 B : 30 C : 0 D : 50	m	80	
<u>Supply, deliver and install all Fire appliances and piping with complete with all auxiliary fittings .:</u>				
Carried Forward			R	
Section No. 5 Bill No. 1 Fire Protection				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
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	Brought Forward			R
	<u>Class 16 HDPE Piping & Fittings</u>			
10	75mm Pipe laid and including trenches not exceeding 800m deep. A : 0 B : 150 C : 0 D : 70	m	220	
11	25mm Pipe laid and including trenches not exceeding 800m deep. A : 0 B : 80 C : 0 D : 50	m	130	
12	75mm-25mm Reducing TEE (Flanged) A : 0 B : 3 C : 0 D : 4	No	7	
13	75mm Adaptor Flange (for fire hydrants) A : 0 B : 2 C : 0 D : 3	No	5	
14	25mm Adaptor Flange (for FHR lines) A : 0 B : 2 C : 0 D : 4	No	6	
15	75mm , 90 Degree Elbow A : 0 B : 10 C : 0 D : 20	No	30	
16	25mm , 90 Degree Elbow A : 0 B : 4 C : 0 D : 5	No	9	
17	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket, bolted to wall. A : 0 B : 2 C : 0 D : 4	No	6	
18	4.5kg Carbon Dioxide fire extinguisher Mounted on a Wooden Block.	No	12	
19	Fire Hose reel & fire Extinguisher Cabinet	No	4	
20	Fire Hydrant in a Cabinet	No	3	
21	38mm Layflat Hose With Adjustable Nozzle Housed inside a Cabinet A : 0 B : 1 C : 0 D : 0	No	1	
22	Photoluminated Directional Signage A : 0 B : 1 C : 1 D : 2			SUM
23	Photoluminated Fire Signage A : 0 B : 1 C : 1 D : 2			SUM
24	Fire Brigade Twin Booster Connection A : 0 B : 1 C : 0 D : 1	No	2	
	Carried to Final Summary			R
	Section No. 5			
	Bill No. 1			
	Fire Protection			

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 1</u>			
	<u>ROADS AND PARKING</u>			
	<u>ZWELETHU STATION</u>			
	<u>SUBBASE (ROAD AND PARKING AREA)</u>			
	<u>G5 Sub base Compacted to 95% mod AASHTO density</u>			
1	150mm Thick A : 0 B : 0 C : 0 D : 60	m3	60	
	<u>PROCESSING</u>			
	<u>Process layerwork material by the following process</u>			
2	Stabilization A : 0 B : 0 C : 0 D : 60	m3	60	
	<u>STABILIZATION</u>			
	<u>Stabilizing agent</u>			
3	Portland cement A : 0.00 B : 0.00 C : 0.00 D : 3.65	t	3,65	
	<u>OVERHAUL</u>			
4	Overhaul (exceeding 2km only) A : 0 B : 0 C : 0 D : 900	M3.KM	900	
	<u>BASE (ROAD AND PARKING AREA)</u>			
	<u>G5 Sub base Compacted to 95% mod AASHTO density</u>			
5	150mm Thick A : 0 B : 0 C : 0 D : 60	m3	60	
	<u>OVERHAUL</u>			
6	Overhaul (exceeding 2km only) A : 0 B : 0 C : 0 D : 900	M3.KM	900	
	Carried Forward		R	
	Section No. 6 Bill No. 1 Roads and Paving			

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Brought Forward				R
<u>ASPHALT BASE AND SURFACING</u>				
<u>PRIME</u>				
<u>Prime coat using</u>				
7	MC-30 cut-back bitumen	ltr	280	
	A : 0 B : 0 C : 0 D : 280			
<u>TACK COAT</u>				
8	Tack coat using cationic premix grade bitumen emulsion	ltr	240	
	A : 0 B : 0 C : 0 D : 240			
<u>ASPHALT SURFACING</u>				
<u>Supply and lay continuously graded asphalt with 5% bitumen content</u>				
9	40mm Thick	m2	400	
	A : 0 B : 0 C : 0 D : 400			
<u>Saw cutting asphalt or cemented pavement layers</u>				
10	Sawing asphalt	m	50	
	A : 0 B : 0 C : 0 D : 50			
<u>ROAD MARKINGS: PARKING AND PLATFORM AREAS</u>				
<u>RETRO-REFLECTIVE ROAD MARKINGS</u>				
<u>White lines (broken or unbroken)</u>				
11	100mm Lines: Parking Areas	m	50	
	A : 0 B : 0 C : 0 D : 50			
Carried to Final Summary				R
Section No. 6				
Bill No. 1				
Roads and Paving				

THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)
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5	FIRE PROTECTION	66	
6	EXTERNAL WORKS	68	
	SUB-TOTAL		R
	ADD 10% CONTINGENCIES TO BE USED AT THE CLIENT AND PRINCIPAL AGENTS DISCRETION		R
	SUB-TOTAL		R
	ADD VAT		R
	Carried to Form of Tender		R